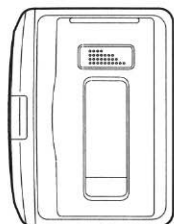


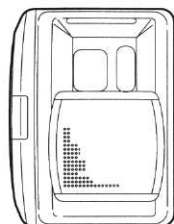
# aiwa



## HS-JS275 HS-JS275W HS-JS375 HS-JS375W



HS-JS275/275W



HS-JS375/375W

STEREO RADIO CASSETTE RECORDER

• BASIC TAPE MECHANISM: 3ZM-1 R1N

• TYPE: YJ,YH,YL,YZ(275,375)  
YU(275W,375W)

### SPECIFICATIONS

|                 |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                               |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency range | <b>YJ,YH,YL,YZ:</b><br>AM: 530 – 1605 kHz<br>FM: 87.5 – 108 MHz<br><b>YU:</b><br>AM: 530 – 1710 kHz<br>FM: 87.5 – 108 MHz                                                                                                    | <b>EIAJ, 10 mW output, playback (HS-JS375/375W)</b><br>Approx. 3.5 hours using R6P (size AA) manganese batteries<br>Approx. 15 hours using LR6 (size AA) alkaline batteries<br><b>EIAJ, recording</b><br>Approx. 2.5 hours using R6P (size AA) manganese batteries<br>Approx. 12 hours using LR6 (size AA) alkaline batteries |
| Maximum output  | 20 mW + 20 mW (EIAJ/16Ω)<br>15 mW + 15 mW (EIAJ/32Ω)                                                                                                                                                                         | <b>HS-JS275/275W:</b> 119 x 89.5 x 34.5 mm<br>(4 <sup>3</sup> / <sub>4</sub> x 3 <sup>5</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>8</sub> inches)                                                                                                                                                                          |
| Power source    | Battery DC 3V, R6 (size AA) X 2<br><b>YJ,YH,YL,YU:</b> Domestic AC power (using the optional AC adaptor: AIWA AC – 620 / AC – 302)<br><b>YZ:</b> Domestic AC power (using the optional AC adaptor: AIWA AC – 300 / AC – 302) | <b>HS-JS375/375W:</b> 119 x 89.5 x 37 mm<br>(4 <sup>3</sup> / <sub>4</sub> x 3 <sup>5</sup> / <sub>8</sub> x 1 <sup>1</sup> / <sub>2</sub> inches)                                                                                                                                                                            |
| Speaker         | Diameter 50 mm, 8Ω<br>(HS-JS375/375W ONLY)                                                                                                                                                                                   | <b>HS-JS275/275W:</b> Approx. 212 g (7 oz)<br><b>HS-JS375/375W:</b> Approx. 226 g (8 oz)                                                                                                                                                                                                                                      |
| Battery life    | <b>EIAJ, 1 mW output, playback</b><br>Approx. 4.5 hours using R6P (size AA) manganese batteries<br>Approx. 19 hours using LR6 (size AA) alkaline batteries                                                                   | • Design and specifications are subject to change without notice.                                                                                                                                                                                                                                                             |

**Maximum dimensions**  
(W x H x D)

**Weight**  
(Including batteries)

MANUAL  
SERVICE

## ACCESSORIES / PACKAGE LIST

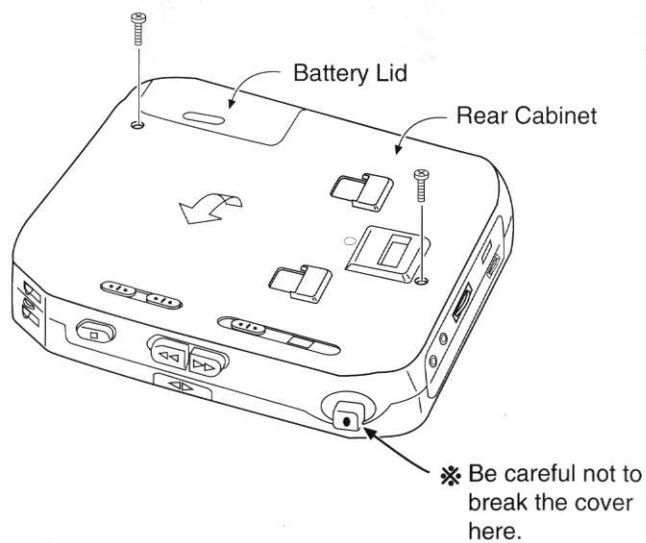
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO. | PART NO.       | KANRI NO.                                  | DESCRIPTION |
|----------|----------------|--------------------------------------------|-------------|
| 1        | 87-HJ7-903-010 | IB, Y (ESF) <375YZ>                        |             |
| 1        | 87-HJ7-904-010 | IB, Y (EGI) <375YZ>                        |             |
| 1        | 87-HJ7-902-010 | IB, YJ (ESC) <375YJ, 375YH, 375YL>         |             |
| 1        | 87-HJ7-901-010 | IB, YU (ESF) <275WYU, 375WYU>              |             |
| 1        | 87-HJ8-902-010 | IB, YJ (ESC) <275YJ, 275YH, 275YL>         |             |
| 1        | 87-HJ8-903-010 | IB, Y (ESF) <275YZ>                        |             |
| 1        | 87-HJ8-904-010 | IB, Y (EGI) <275YZ>                        |             |
| 2        | 87-041-083-110 | MIC, CM-S40A                               |             |
| 3        | 84-447-019-310 | CLIP, BELT                                 |             |
| 4        | 87-B30-081-010 | HEADPHONE, HP-M009 (S) <275WYU, 375WYU>    |             |
| 4        | 87-B30-042-010 | HEADPHONE, HP-24NSH<EXCEPT 275WYU, 375WYU> |             |

## DISASSEMBLY INSTRUCTION

### 1. REAR CABINET REMOVAL

- 1) Remove the 2 screws and open the battery lid.
- 2) Remove the Rear Cabinet in the direction of the arrow.

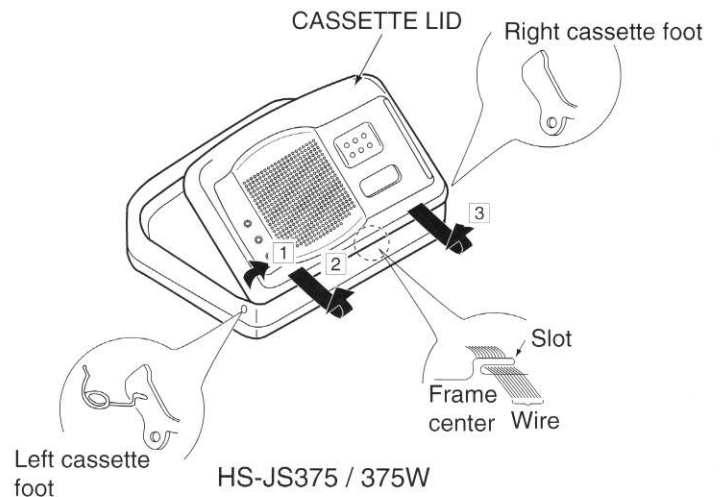
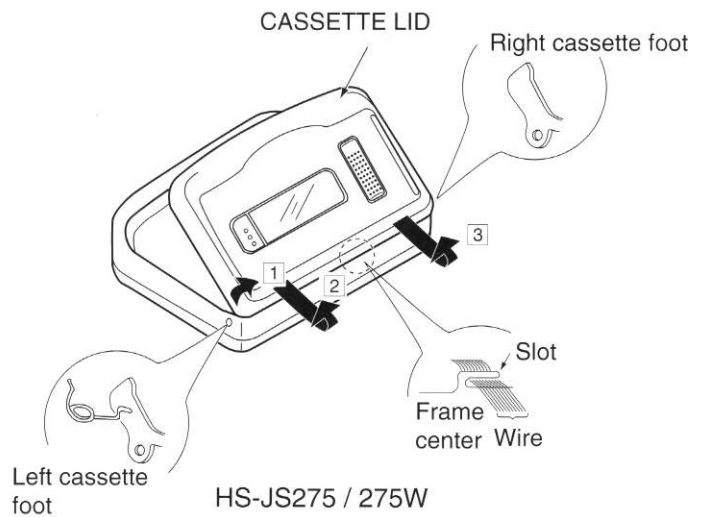


## 2. HOW TO REMOVE THE CASSETTE LID

Note: 1. Be careful not to break the cassette foots when removing the cassette lid.

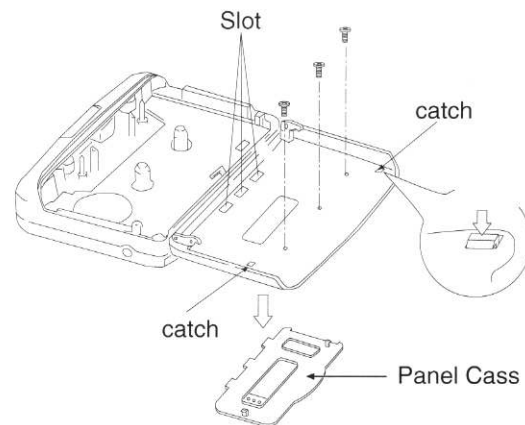
2. To ensure the wires linked to the cassette lid are stressed-free, remove them from the wire slot on the frame centre before the following steps are performed.

- 1) Apply a little bit of force in direction **1** to the cassette lid and pull out the left boss of the left cassette foot.
- 2) Slide the cassette lid in the direction of arrow **2** to remove the right cassette foot.
- 3) By sliding the cassette lid in the direction of **3**, the lid can be removed.



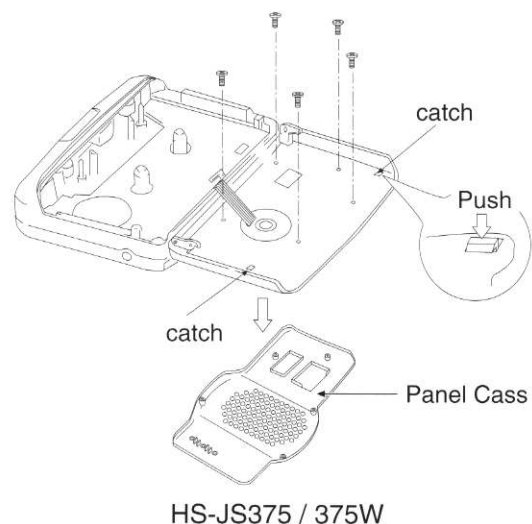
## 3. HOW TO REMOVE THE PANEL CASS (HS-JS275 / 275W)

- 1) Remove the 3 screws.
- 2) Unhook the 2 catches.
- 3) Remove the Panel Cass from the slots.



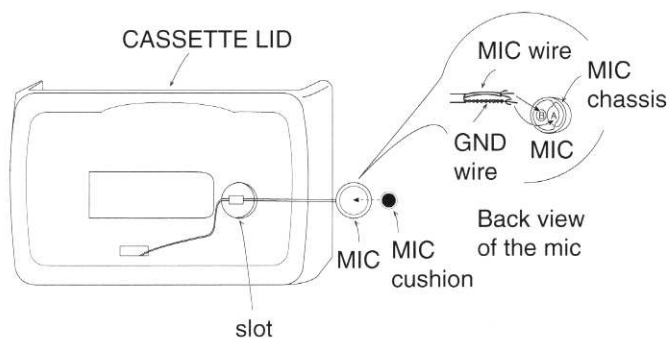
## 3. HOW TO REMOVE THE PANEL CASS (HS-JS375 / 375W)

- 1) Remove the 5 screws.
- 2) Unhook the 2 catches & remove the Panel Cass from the front.



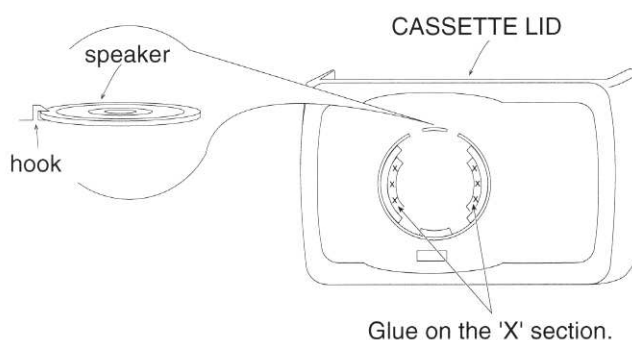
#### 4. HOW TO REPLACE THE BUILT-IN MIC

- 1) As shown right, the MIC has two solder points, one point (A) is linked to the MIC chassis and the other point (B) is not. Solder the GND wire to point (A) and the MIC wire to point (B).
- 2) Replace the MIC cushion onto the MIC and make sure the MIC is Properly seated into the slot before assembling the Panel Cass.



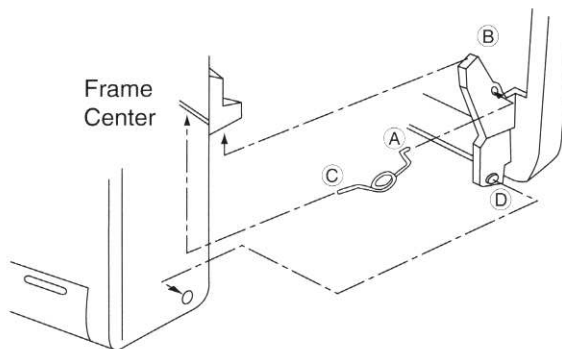
#### 5. HOW TO REMOVE THE SPEAKER FROM THE CASSETTE LID (HS-JS375 / 375W).

- 1) Remove the hook that holds the speaker.
- 2) Remove the speaker carefully as glue was applied on the 'X' section as shown.



#### 6. HOW TO REPLACE THE CASSETTE LID SPRING (T-SPRING).

- 1) Insert (A) into the hole on the cassette foot.
- 2) Fix (B) onto the Frame Center indicated by the arrow.
- 3) Fix (C) in the direction of arrow.
- 4) Fix the boss (D) into the Frame Center.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

| REF. NO.   | PART NO.       | KANRI NO. | DESCRIPTION                  | REF. NO. | PART NO.       | KANRI NO. | DESCRIPTION                    |
|------------|----------------|-----------|------------------------------|----------|----------------|-----------|--------------------------------|
| IC         |                |           |                              | C109     | 87-010-196-080 |           | C-CAP,S 0.1-25 Z F             |
|            |                |           |                              | C110     | 87-010-195-080 |           | C-CAP,S 0.068-25 F             |
|            | 87-001-943-080 |           | C-IC,TA8155F                 | C111     | 87-010-196-080 |           | C-CAP,S 0.1-25 Z F             |
|            | 87-017-370-080 |           | C-IC,MM1038AFF               | C112     | 87-010-503-040 |           | CAP,E 220-4 M 5L SRE           |
|            | 87-001-379-080 |           | C-IC,TA8122AF                | C113     | 87-010-213-080 |           | C-CAP,S 0.015-50 K B           |
|            | 87-017-643-080 |           | C-IC,MM1206XFF               |          |                |           |                                |
|            | 87-002-232-080 |           | C-IC,NJM2073M<375,375W>      | C114     | 87-010-213-080 |           | C-CAP,S 0.015-50 K B           |
|            |                |           |                              | C115     | 87-010-194-080 |           | C-CAP,S 0.047-25 Z F           |
|            | 87-001-371-080 |           | C-IC,LA4533M                 | C116     | 87-010-194-080 |           | C-CAP,S 0.047-25 Z F           |
|            |                |           |                              | C117     | 87-010-178-080 |           | C-CAP,S 1000P-50 K B           |
| TRANSISTOR |                |           |                              | C118     | 87-010-178-080 |           | C-CAP,S 1000P-50 K B           |
|            |                |           |                              |          |                |           |                                |
|            | 87-026-263-080 |           | C-TR,RN1410                  | C119     | 87-010-500-040 |           | CAP,E 33-4 M 5L SRE            |
|            | 89-327-125-080 |           | C-TR,2SC2712GR               | C120     | 87-010-805-080 |           | C-CAP,S 1-16 Z F               |
|            | 89-111-625-080 |           | C-TR,2SA1162GR(0.15W)        | C128     | 87-010-318-080 |           | C-CAP,S 47P-50 J CH            |
|            | 89-112-134-040 |           | C-TR,2SA1213Y1<375,375W>     | C401     | 87-012-142-080 |           | C-CAP,S 0.33-16 Z F            |
|            | 89-333-266-080 |           | C-TR,2SC3326B                | C402     | 87-012-142-080 |           | C-CAP,S 0.33-16 Z F            |
|            |                |           |                              |          |                |           |                                |
|            |                |           |                              | C403     | 87-010-452-080 |           | C-CAP,S 1-16 Z F               |
|            |                |           |                              | C501     | 87-016-462-080 |           | C-CAP,S 1-16 Z F<YZ>           |
| DIODE      |                |           |                              | C502     | 87-016-462-080 |           | C-CAP,S 1-16 Z F<YZ>           |
|            | 87-020-027-080 |           | C-DIODE,1SS184               | C503     | 87-010-501-040 |           | CAP,E 47-4 M 5L SRE<YZ>        |
|            | 87-020-339-080 |           | C-DIODE,1SS226<YZ>           | C504     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B<YZ>        |
| MAIN C.B   |                |           |                              |          |                |           |                                |
|            |                |           |                              | C601     | 87-010-503-040 |           | CAP,E 220-4 M 5L SRE<375,375W> |
|            |                |           |                              | C602     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B<375,375W>  |
|            |                |           |                              | C603     | 87-A10-422-080 |           | C-CAP,TN 10-4 A TCF<375,375W>  |
|            |                |           |                              | C604     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B<375,375W>  |
|            |                |           |                              | C605     | 87-016-461-080 |           | C-CAP,S 0.47-16 Z F<375,375W>  |
|            |                |           |                              |          |                |           |                                |
|            | 87-030-314-010 |           | FLTR,KIT 10.7M               |          |                |           |                                |
|            | 87-A90-609-010 |           | FLTR,BPF GFMB7               |          |                |           |                                |
|            | 87-010-178-080 |           | C-CAP,S 1000P-50 K B         | C606     | 87-010-195-080 |           | C-CAP,S 0.015-25 K B<375,375W> |
| BPF101     |                |           |                              | C607     | 87-010-184-080 |           | C-CAP,S 3300P-50 K B<375,375W> |
|            | 87-010-178-080 |           | C-CAP,S 1000P-50 K B         | C608     | 87-010-805-080 |           | C-CAP,S 1-16 F<375,375W>       |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C609     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B<375,375W>  |
|            |                |           |                              | C651     | 87-010-503-040 |           | CAP,E 220-4 M 5L SRE           |
|            |                |           |                              |          |                |           |                                |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C652     | 87-010-503-040 |           | CAP,E 220-4 M 5L SRE           |
|            | 87-010-322-080 |           | C-CAP,S 100P-50 CH           | C653     | 87-012-141-080 |           | C-CAP,S 0.22-16 Z F            |
|            | 87-010-322-080 |           | C-CAP,S 100P-50 CH           | C654     | 87-012-141-080 |           | C-CAP,S 0.22-16 Z F            |
|            | 87-010-177-080 |           | C-CAP,S 820P-50 SL           | C655     | 87-010-502-040 |           | CAP,E 100-4 M 5L SRE           |
|            | 87-010-177-080 |           | C-CAP,S 820P-50 SL           | C656     | 87-010-503-040 |           | CAP,E 220-4 M 5L SRE           |
| C4         |                |           |                              |          |                |           |                                |
|            | 87-010-197-080 |           | C-CAP,S 0.01-25 K B          |          |                |           |                                |
|            | 87-010-197-080 |           | C-CAP,S 0.01-25 K B          | C657     | 87-010-178-080 |           | C-CAP,S 1000P-50 K B           |
|            | 87-010-501-040 |           | CAP,E 47-4 M 5L SRE          | C701     | 87-010-501-040 |           | CAP,E 47-4 M 5L SRE            |
|            | 87-010-501-040 |           | CAP,E 47-4 M 5L SRE          | C702     | 87-A10-419-080 |           | C-CAP,TN 1-16 A TCF            |
|            | 87-010-194-080 |           | C-CAP,S 0.047-25 Z F         | C703     | 87-A10-419-080 |           | C-CAP,TN 1-16 A TCF            |
|            |                |           |                              | C704     | 87-010-188-080 |           | C-CAP,S 6800P-50 K B           |
|            |                |           |                              |          |                |           |                                |
|            | 87-010-194-080 |           | C-CAP,S 0.047-25 Z F         |          |                |           |                                |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C705     | 87-010-188-080 |           | C-CAP,S 6800P-50 K B           |
| C15        |                |           |                              | C706     | 87-016-462-080 |           | C-CAP,S 1-16 Z F               |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C707     | 87-016-462-080 |           | C-CAP,S 1-16 Z F               |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C708     | 87-010-498-040 |           | CAP,E 10-16 M 5L SRE           |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C710     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B            |
|            |                |           |                              |          |                |           |                                |
|            | 87-010-503-040 |           | CAP,E 220-4 M 5L SRE         |          |                |           |                                |
|            | 87-010-179-080 |           | C-CAP,S 1200P-50 K B         |          |                |           |                                |
|            | 87-010-179-080 |           | C-CAP,S 1200P-50 K B         | C711     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B            |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C712     | 87-010-176-080 |           | C-CAP,S 680P-50 J SL           |
|            | 87-010-587-040 |           | CAP,E 100-2                  | C713     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B            |
| C24        |                |           |                              | C714     | 87-010-497-040 |           | CAP,E 4.7-35 M 5L SRE          |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C715     | 87-010-180-080 |           | C-CAP,1500P-50 K B             |
|            | 87-A10-422-080 |           | C-CAP,TN 10-4 A TCF          |          |                |           |                                |
|            | 87-A10-422-080 |           | C-CAP,TN 10-4 A TCF          | C716     | 87-010-197-080 |           | C-CAP,S 0.01-25 K B            |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | C717     | 87-010-184-080 |           | C-CAP,S 3300P-50 K B           |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | CF101    | 87-A90-530-010 |           | FLTR,AM IF PFS455A             |
|            |                |           |                              | CR101    | 87-030-154-010 |           | VIB,CER 456KHZ CSB F 16        |
|            | 87-A10-418-080 |           | C-CAP,TN 22-4 A TCF          | J1       | 87-A60-122-010 |           | JACK,DC 3.8 W/SW               |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             |          |                |           |                                |
|            | 87-010-178-080 |           | C-CAP,S 1000P-50 K B         | J2       | 85-HRL-623-010 |           | JACK,3.5 ST BLK                |
| C51        |                |           |                              | J701     | 87-A60-474-010 |           | JACK,3.5MM 5PINSTEREO          |
|            | 87-010-196-080 |           | C-CAP,S 0.1-25 Z F           | L1       | 87-003-143-080 |           | COIL,4.7 UH                    |
|            | 87-016-462-080 |           | C-CAP,S 1-16 Z F             | L2       | 87-003-143-080 |           | COIL,4.7 UH                    |
|            |                |           |                              | L3       | 87-003-143-080 |           | COIL,4.7 UH                    |
|            |                |           |                              |          |                |           |                                |
|            | 87-010-146-080 |           | C-CAP,S 2P-50 CH<YU>         |          |                |           |                                |
|            | 87-010-149-080 |           | C-CAP,S 5P-50 CH<EXCEPT YU>  |          |                |           |                                |
|            | 87-012-159-080 |           | C-CAP,S 24P-50 CH            | L51      | 87-003-089-010 |           | COIL,47UH FL5R200F             |
|            | 87-012-159-080 |           | C-CAP,S 24P-50 CH<YU>        | L52      | 87-003-089-010 |           | COIL,47UH FL5R200F             |
|            | 87-010-315-080 |           | C-CAP,S 27P-50 CH<EXCEPT YU> | L101     | 87-HJ7-603-010 |           | BAR-ANT,MW                     |
| C104       |                |           |                              | L102     | 87-HRL-605-010 |           | COIL,RF FM EX                  |
|            | 87-010-150-080 |           | C-CAP,S 6P-50 CH<YU>         | L103     | 85-HRE-607-010 |           | COIL,OSC FM                    |
|            | 87-010-152-080 |           | C-CAP,S 8P-50 CH<EXCEPT YU>  |          |                |           |                                |
|            | 87-010-197-080 |           | C-CAP,S 0.01-25 K B          |          |                |           |                                |
|            | 87-010-315-080 |           | C-CAP,S 27P-50 CH            | L104     | 87-A50-188-010 |           | COIL,AM OSC270UH               |
|            | 87-010-805-080 |           | C-CAP,S 1-16 Z F             | L105     | 87-A90-663-010 |           | IFT,MW 5L H6.4                 |
|            |                |           |                              | L601     | 87-003-089-010 |           | COIL,47UH FL5R200F<375,375W>   |
|            |                |           |                              | L651     | 87-003-089-010 |           | COIL,47UH FL5R200F             |
|            |                |           |                              | L701     | 87-007-189-010 |           | COIL,OSC 50 KHZ                |
|            | 87-012-157-080 |           | C-CAP,S 330P-50 CH           |          |                |           |                                |

TRANSISTOR ILLUSTRATION



2SA1162  
2SC2712  
2SC3326  
RN1410

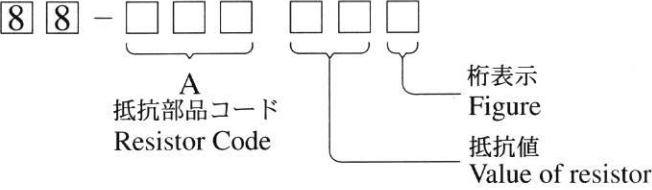
2SA1213

| REF. NO.      | PART NO.       | KANRI NO. | DESCRIPTION                       |
|---------------|----------------|-----------|-----------------------------------|
| M701          | 82-TP3-609-010 |           | ECM                               |
| PVC101        | 87-011-246-010 |           | TUN-CAP,7.5-20P                   |
| R59           | 87-022-656-080 |           | M-RES,0.68-1/8 W G                |
| SFR51         | 87-024-050-010 |           | SFR,1KV VZ066H1                   |
| SW1           | 87-036-322-010 |           | C-SW,SL 2-2-3 SSSS22              |
|               |                |           |                                   |
| SW2           | 87-036-123-010 |           | C-SW,SL 1-1-2 SSSS81              |
| SW3           | 87-036-110-010 |           | SW,MICRO SPPB62                   |
| SW4           | 87-036-411-010 |           | SW,LEAF                           |
| SW51          | 87-036-123-010 |           | C-SW,SL 1-1-2 SSSS81              |
| SW401         | 87-036-145-010 |           | C-SW,SL 1-1-3 SSSS81              |
|               |                |           |                                   |
| SW501         | 87-036-145-010 |           | C-SW,SL 1-1-3 SSSS81<YZ>          |
| SW701         | 87-036-082-010 |           | SW,SL 2-2-2 MCS-2210              |
| TH51          | 87-026-256-090 |           | THMS,HT-100                       |
| VR1           | 83-HRC-609-010 |           | VOL 20KAX2                        |
| W1            | 87-HJ8-602-010 |           | F-CABLE,2P 0.05MM 128MM<275,275W> |
|               |                |           |                                   |
| W2            | 87-HJ7-607-010 |           | F-CABLE,4P 0.05MM 106MM<375,375W> |
|               |                |           |                                   |
| FRONT C.B     |                |           |                                   |
|               |                |           |                                   |
| C451          | 87-016-462-080 |           | C-CAP,S 1-16 F                    |
| LED451        | 87-A90-276-080 |           | C-LED,SML-210MT GRN               |
| LED452        | 87-A90-711-080 |           | C-LED,SML-210YTT YEL              |
| LED453        | 87-A90-278-080 |           | C-LED,SML-210VT RED               |
|               |                |           |                                   |
| HEAD FLEX C.B |                |           |                                   |
|               |                |           |                                   |
| RPH1          | 87-046-408-010 |           | HEAD ASSY,R PH                    |
| SW1           | 87-036-357-019 |           | SW,SL 2-2-2(NC)                   |

チップ抵抗部品コード／CHIP RESISTOR PART CODE

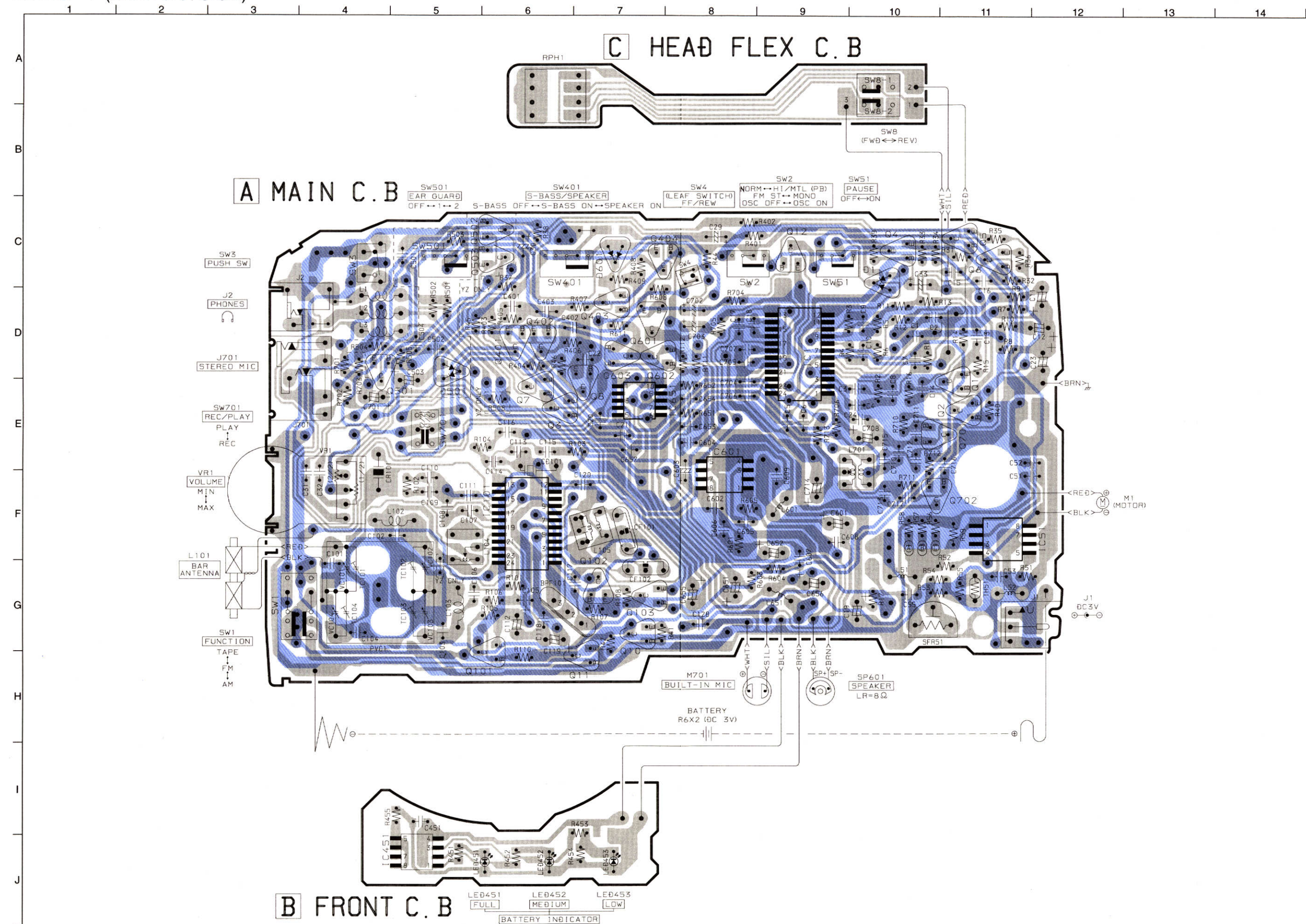
チップ抵抗部品コードの成り立ち

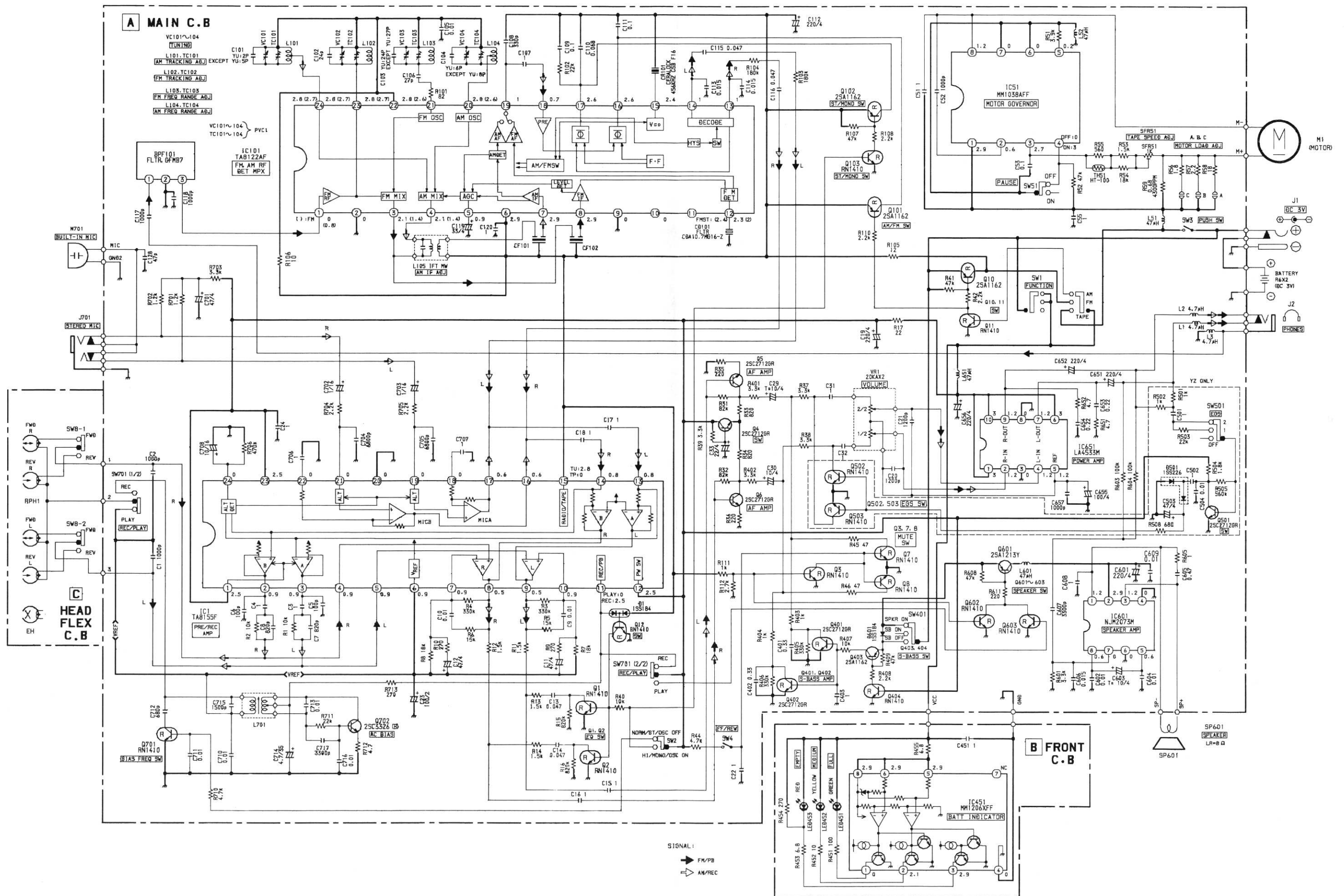
Chip Resistor Part Coding

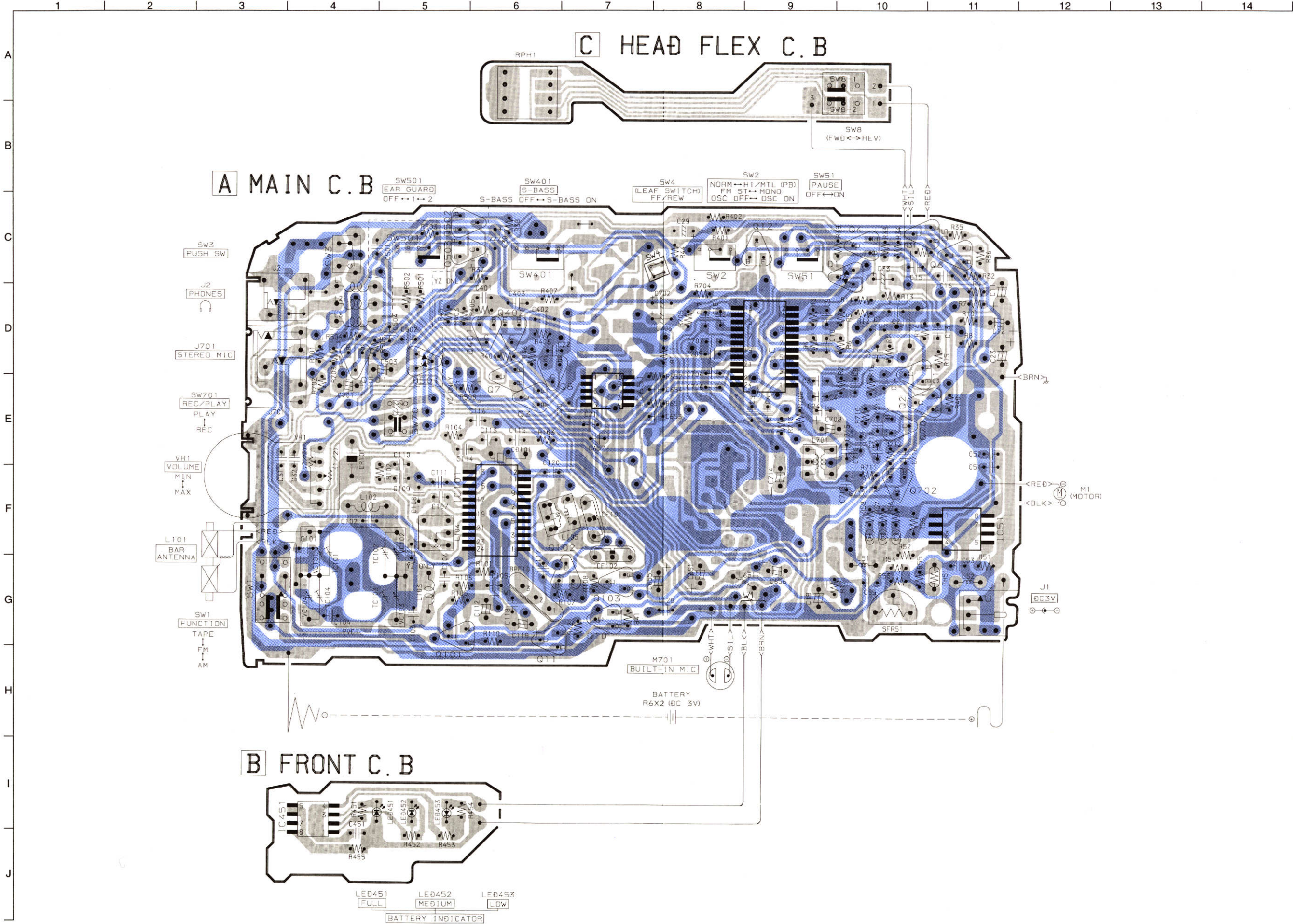


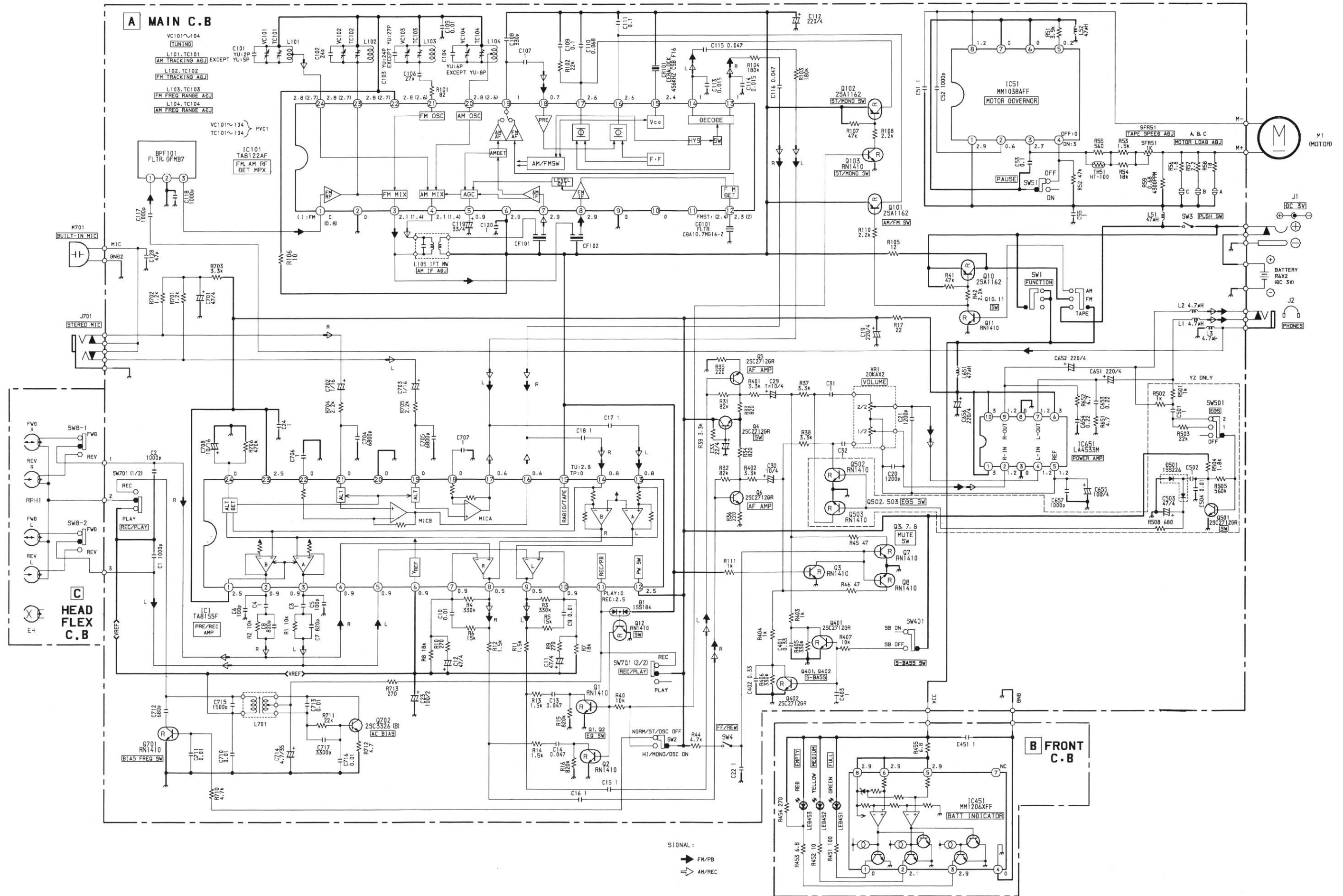
チップ抵抗 Chip resistor

| 容量<br>Wattage | 種類<br>Type | 許容誤差<br>Tolerance | 記号<br>Symbol | 寸法／Dimensions (mm) |     |      |      | 抵抗コード : A<br>Resistor Code : A |
|---------------|------------|-------------------|--------------|--------------------|-----|------|------|--------------------------------|
|               |            |                   |              | 外形／Form            | L   | W    | t    |                                |
| 1/16W         | 1608       | ± 5%              | CJ           |                    | 1.6 | 0.8  | 0.45 | 108                            |
| 1/10W         | 2125       | ± 5%              | CJ           |                    | 2   | 1.25 | 0.45 | 118                            |
| 1/8W          | 3216       | ± 5%              | CJ           |                    | 3.2 | 1.6  | 0.55 | 128                            |



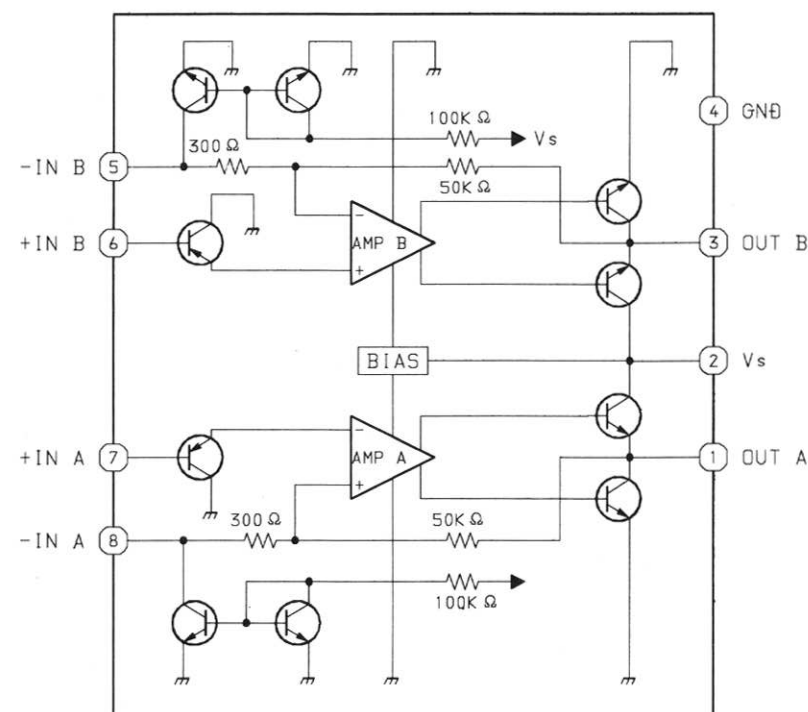




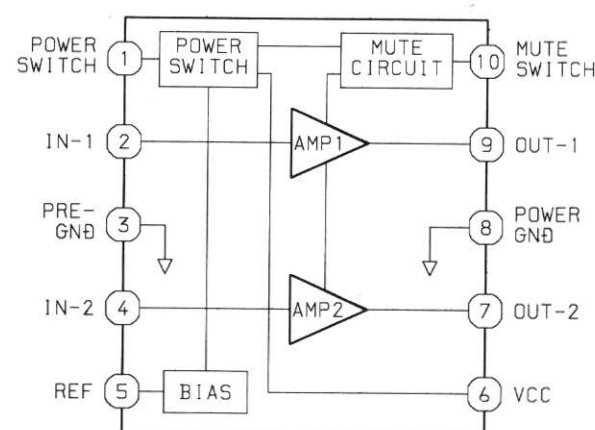


## IC BLOCK DIAGRAM

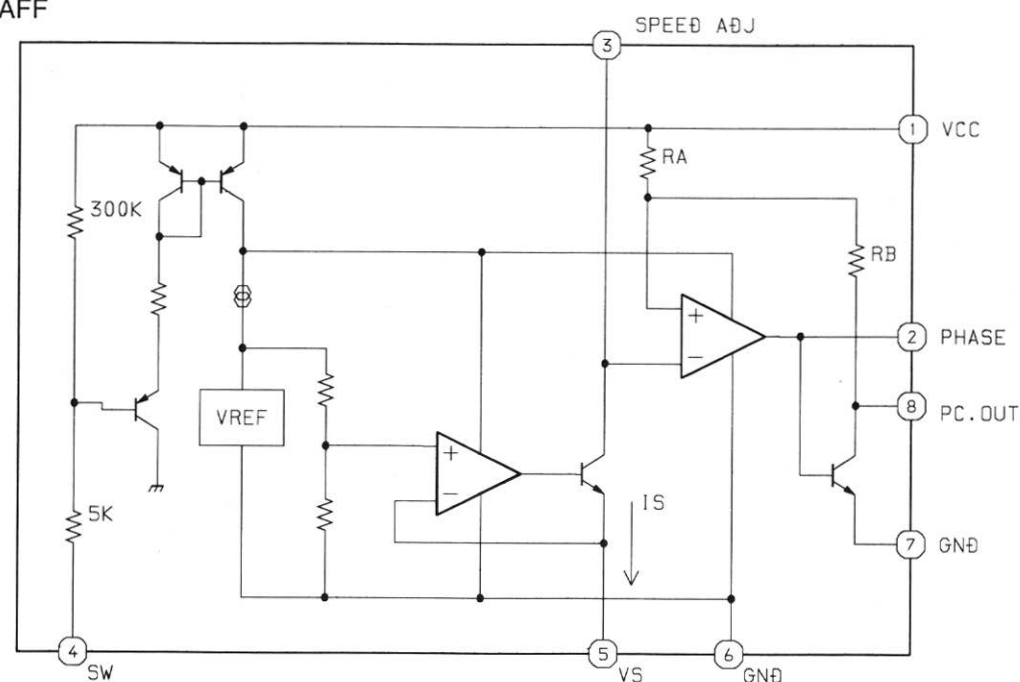
IC, NJM2073M



IC, LA4533M

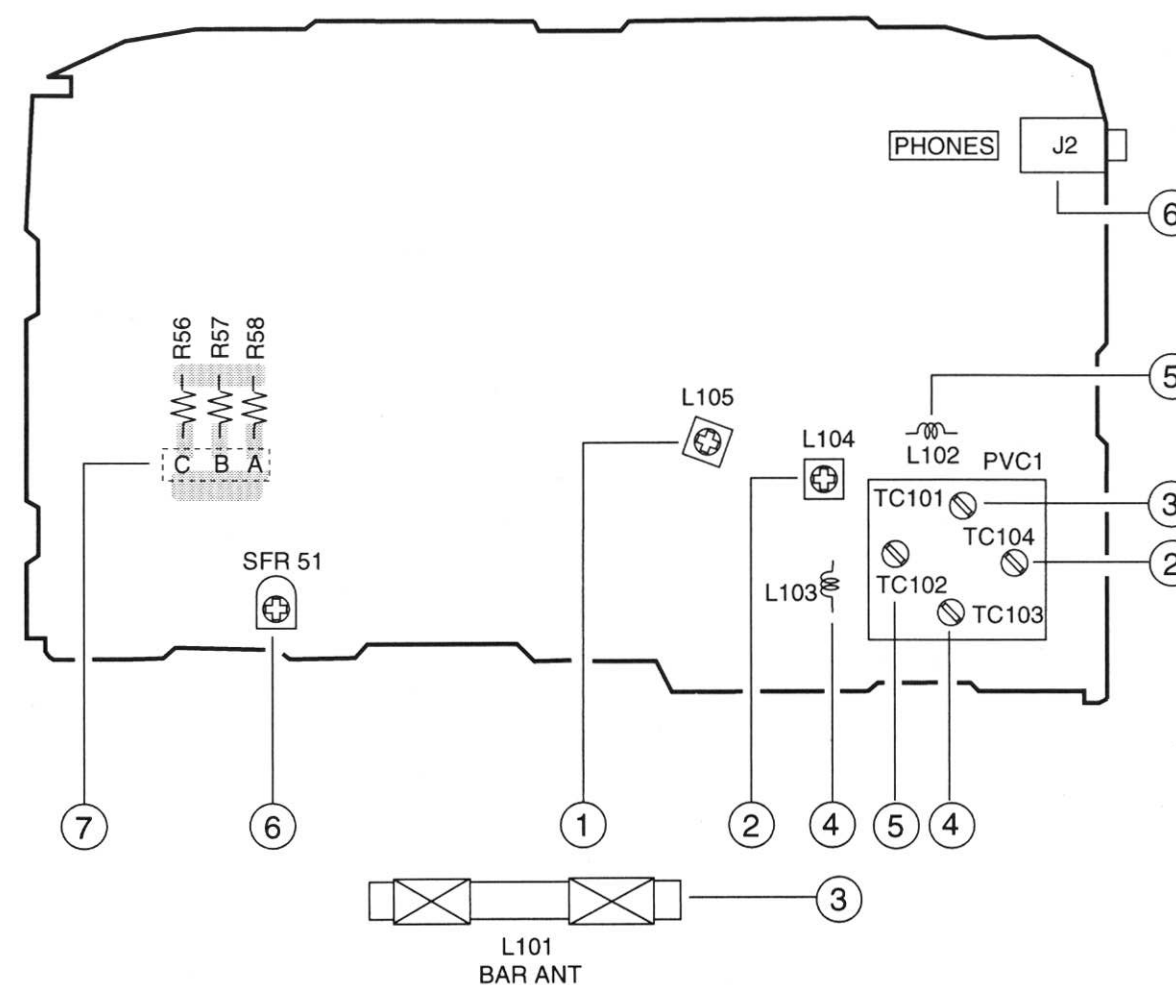


IC, MM1038AFF



## ADJUSTMENT

A MAIN C.B



### <RADIO SECTION>

- AM IF Adjustment  
L105 ..... 450kHz
- AM Frequency range Adjustment  
L104 ..... 517 ± 5kHz (YU ONLY)  
L104 ..... 515 ± 5kHz (EXCEPT YU)  
TC104 ..... 1775 ± 10kHz (YU ONLY)  
TC104 ..... 1670 ± 10kHz (EXCEPT YU)
- AM Tracking Adjustment  
L101 ..... 600kHz  
TC101 ..... 1400kHz
- FM Frequency range Adjustment  
L103 ..... 87.4 ± 0.1MHz (YZ ONLY)  
L103 ..... 87.0 ± 0.1MHz (EXCEPT YZ)  
TC103 ..... 108.3 ± 0.1MHz (YZ ONLY)  
TC103 ..... 109.0 ± 0.1MHz (EXCEPT YZ)
- FM Tracking Adjustment  
L102 ..... 88.0MHz  
TC102 ..... 108.0MHz

### <TAPE PLAYER SECTION>

- Tape Speed Adjustment  
Settings : • Test tape : TTA-100  
• Test point : PHONES JACK (J2)  
• Adjustment location : SFR51  
• Super BASS : OFF  
• Tape/radio : TAPE  
• Tape select : NORM  
• Ear guard : OFF  
• Direction : FWD, REV  
• Volume : NON-CLIP (MAX -10dB DOWN)  
Method : Play back the test tape and adjust for 3015 ± 10Hz (FWD) and FWD SPEED ± 45Hz(REV).
- Motor Load Adjustment  
Perform the STOP → PLAY and REVERSE operations (or PAUSE ON → OFF) after the motor is replaced. When the tape starts running smooth, this adjustment is not necessary. If wow is conspicuous at the beginning of the tape-run, perform this adjustment following the procedure below.  
1) Solder both resistor pattern (A) and (B) of the MOTOR AND GOVERNOR MATCHING ADJ. resistor group.  
2) Set the tape speed (using speed adjustment SFR51).

- 3) Restrict the motor rotation by hand (or turn PAUSE ON).
- 4) Remove your hand and listen to the beginning of the tape-run.
- 5) When the rise of tape running is smooth, no more adjustment is necessary.  
If wow continues for 1 to 2 seconds at the rise time, reduce the combined resistance according to procedure 6 and check that the tape starts running smooth.
- 6) Solder the resistor pattern according to the table below:

| Pattern               | (Procedure 1 above) | Step (1) | Step (2) | Step (3) |
|-----------------------|---------------------|----------|----------|----------|
| High resistance (A)   | Solder              | Open     | Open     | Solder   |
| Medium resistance (B) | Solder              | Open     | Solder   | Open     |
| Low resistance (C)    | Open                | Solder   | Open     | Solder   |

| Pattern               | Step (4) | Step (5) | Step (6) | Step (7) |
|-----------------------|----------|----------|----------|----------|
| High resistance (A)   | Solder   | Open     | Open     | Solder   |
| Medium resistance (B) | Open     | Solder   | Open     | Solder   |
| Low resistance (C)    | Open     | Solder   | Open     | Solder   |

- 7) Finally re-check the tape speed.  
Caution : Cool the patterns down to normal temperature after soldering. If the pattern remains heated, the governor circuit does not operate normally.

## PRACTICAL SERVICE FIGURE

### <TUNER SECTION>

Sensitivity :  
(IHF, THD 3%) FM Less than 19dB  
[at 88 / 98 / 108MHz]  
(S/N 10dB) AM Less than 59dB [at 600kHz]  
Less than 59dB [at 1000kHz]  
Less than 56dB [at 1400kHz]  
Intermediate frequency : FM 10.7MHz  $\pm$  0.1MHz  
AM 455kHz  $\pm$  3kHz  
FM stereo separation : More than 16dB [at 98.0MHz]

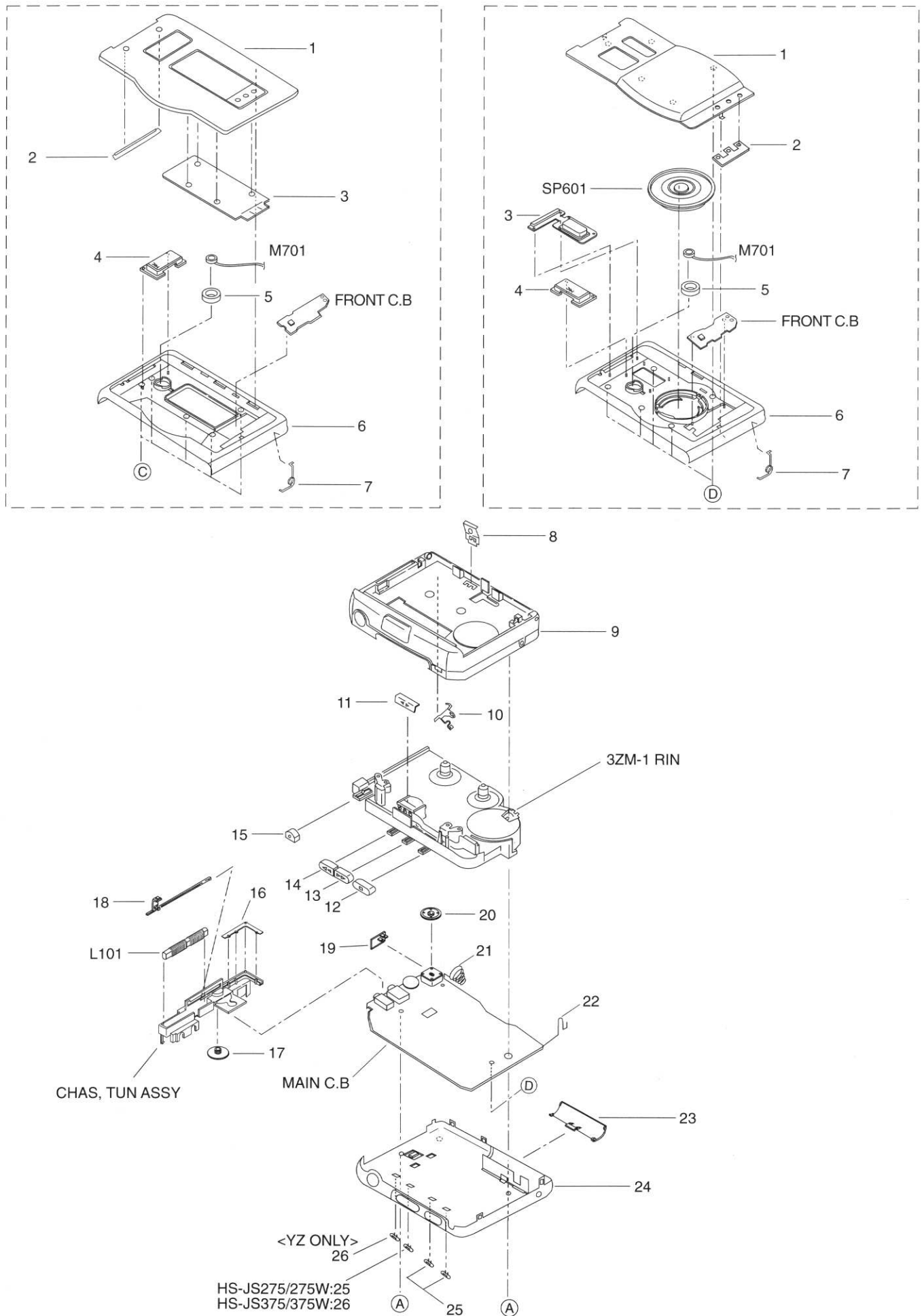
### <TAPE SECTION>

Tape speed : 3015Hz  $\pm$  60Hz  
Wow & flutter : Less than 0.55% (RMS)  
Pinch roller pressure : 150 ~ 180g (FWD)  
135 ~ 165g (REV)  
Take-up torque : 25 ~ 45g-cm (FWD, REV)  
F.F torque : More than 60g-cm  
Rew torque : More than 60g-cm  
Back tension : 1 ~ 4g-cm (FWD, REV)  
S/N ratio : More than 43dB (PB, DC)  
More than 30dB (REC/PB, DC)  
Distortion : Less than 2.5% (PB, DC)  
Less than 10.0% (REC/PB, DC)  
Noise level : Less than 7.0mV  
(Vol MAX, PB, DC)  
Less than 12.0mV  
(Vol MAX, REC/PB, DC)  
Frequency response : 63Hz + 1/-6dB ~ 8kHz + 3/-4dB  
(NORMAL)  
63Hz + 1/-6dB ~ 10kHz + 3/-4dB  
(CrO<sub>2</sub>, METAL)  
Test tape : TTA- 100  
TTA- 210  
TTA- 300  
TTA- 320 (120 $\mu$ )/310 (70 $\mu$ )  
TTA- 602

# MECHANICAL EXPLODED VIEW 1 / 1

HS-JS275/275W

HS-JS375/375W

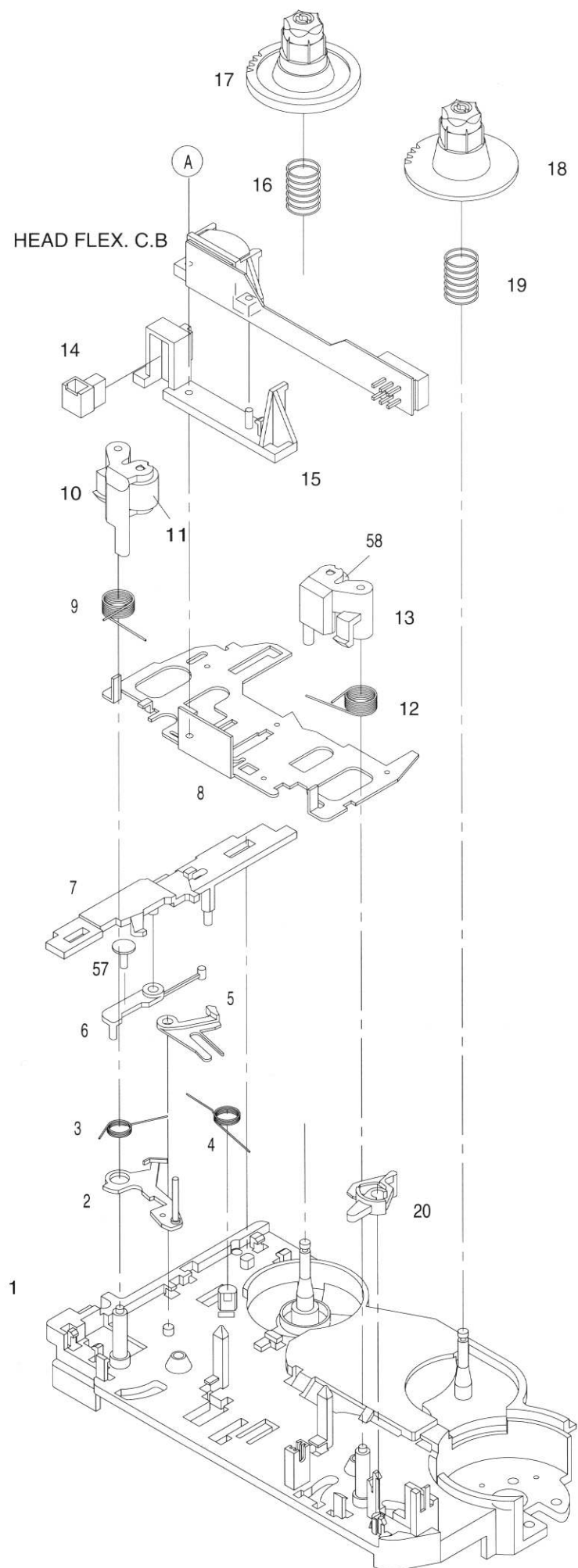


# MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

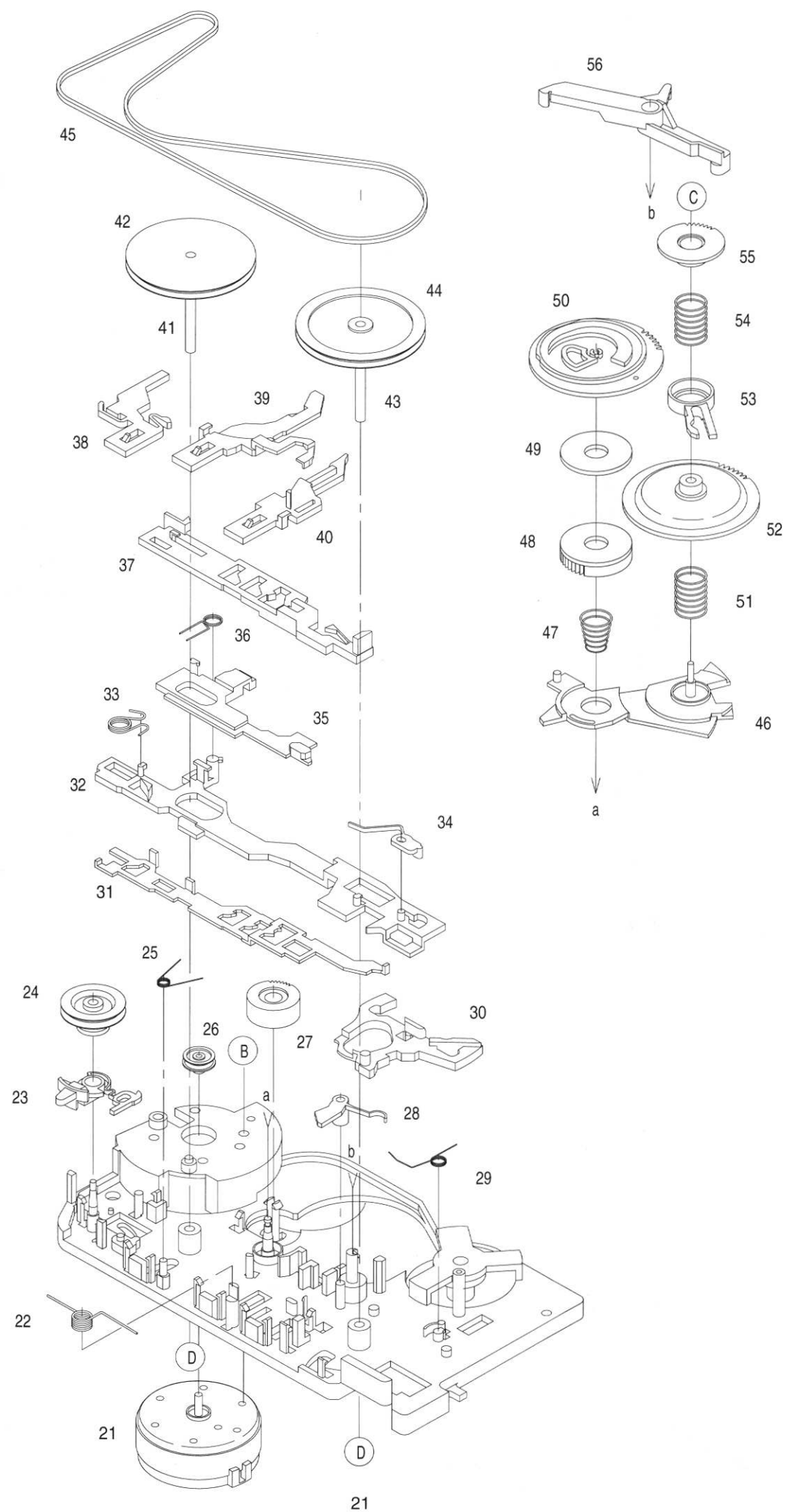
| REF. NO. | PART NO.       | KANRI NO. | DESCRIPTION                   | REF. NO. | PART NO.       | KANRI NO. | DESCRIPTION                   |
|----------|----------------|-----------|-------------------------------|----------|----------------|-----------|-------------------------------|
| 1        | 87-HJ8-002-010 |           | PANEL,CASS<275YH,275YL,275YJ> | 17       | 87-HJ7-015-010 |           | KNOB,RTRY TUN                 |
| 1        | 87-HJ8-012-010 |           | PANEL,CASS YU<275WYU>         | 18       | 87-HJ7-014-010 |           | POINTER,TUN                   |
| 1        | 87-HJ8-011-010 |           | PANEL,CASS YZ<275YZ>          | 19       | 87-HJ7-020-010 |           | KNOB,SL RADIO                 |
| 1        | 87-HJ7-005-010 |           | PANEL,SPKR<375YH,375YL,375YJ> | 20       | 87-HJ7-204-010 |           | GEAR,CAP                      |
| 1        | 87-HJ7-022-010 |           | PANEL,SPKR YZ<375YZ>          | 21       | 87-HJ7-206-010 |           | BAT-CONTACT,-                 |
| 1        | 87-HJ7-023-010 |           | PANEL,SPKR YU<375WYU>         | 22       | 87-HJ7-205-010 |           | BAT-CONTACT,+                 |
| 2        | 87-HJ8-005-010 |           | WINDOW,TUN<275,275W>          | 23       | 87-HJ7-004-010 |           | LID,BATT                      |
| 2        | 87-HJ7-008-010 |           | LENS,LED<375,375W>            | 24       | 87-HJ8-009-010 |           | CABI,REAR YJ<275YH,275YJ>     |
| 3        | 87-HJ8-006-010 |           | WINDOW,CASS<275,275W>         | 24       | 87-HJ8-010-010 |           | CABI,REAR YL<275YL>           |
| 3        | 87-HJ7-007-010 |           | WINDOW,CASS<375,375W>         | 24       | 87-HJ8-007-010 |           | CABI,REAR YU<275WYU>          |
| 4        | 87-HJ8-003-010 |           | NET,MIC<275,275W>             | 24       | 87-HJ8-008-010 |           | CABI,REAR YZ<275YZ>           |
| 4        | 87-HJ7-006-010 |           | NET,MIC<375,375W>             | 24       | 87-HJ7-003-010 |           | CABI,REAR YZ<375YZ>           |
| 5        | 87-HJ7-212-010 |           | DMPR,MIC                      | 24       | 87-HJ7-018-010 |           | CABI,REAR YU<375WYU>          |
| 6        | 87-HJ8-001-010 |           | LID,CASS<275,275W>            | 24       | 87-HJ7-019-010 |           | CABI,REAR YJ<375YH,375YJ>     |
| 6        | 87-HJ7-001-010 |           | LID,CASS<375,375W>            | 24       | 87-HJ7-021-010 |           | CABI,REAR YL<375YL>           |
| 7        | 83-HRJ-202-010 |           | T-SP,CLICK                    | 25       | 87-HJ7-017-010 |           | KNOB,SL B                     |
| 8        | 85-HRE-206-010 |           | P-SP,CASS                     | 26       | 87-HJ7-016-010 |           | KNOB,SL A                     |
| 9        | 87-HJ7-002-010 |           | FRAME,CENTER                  | A        | 87-067-770-010 |           | VT2+1.7-9(3) BLK              |
| 10       | 87-HJ7-203-010 |           | LEVER,REC                     | B        | 87-266-533-310 |           | SCREW V+1.7-6                 |
| 11       | 87-HJ7-009-010 |           | BTN,PLAY                      | C        | 87-067-732-010 |           | VT2+1.4-3 CR BLK HL<275,275W> |
| 12       | 87-HJ7-010-010 |           | BTN,STOP                      | D        | 87-B10-074-010 |           | VT2+1.7-3.5 (1) BLK<375,375W> |
| 13       | 87-HJ7-011-010 |           | BTN,FF                        |          |                |           |                               |
| 14       | 87-HJ7-012-010 |           | BTN,REW                       |          |                |           |                               |
| 15       | 87-HJ7-013-010 |           | BTN,REC                       |          |                |           |                               |
| 16       | 87-HJ7-207-010 |           | COVER, TUN                    |          |                |           |                               |

TAPE MECHANISM EXPLODED VIEW 1 / 1



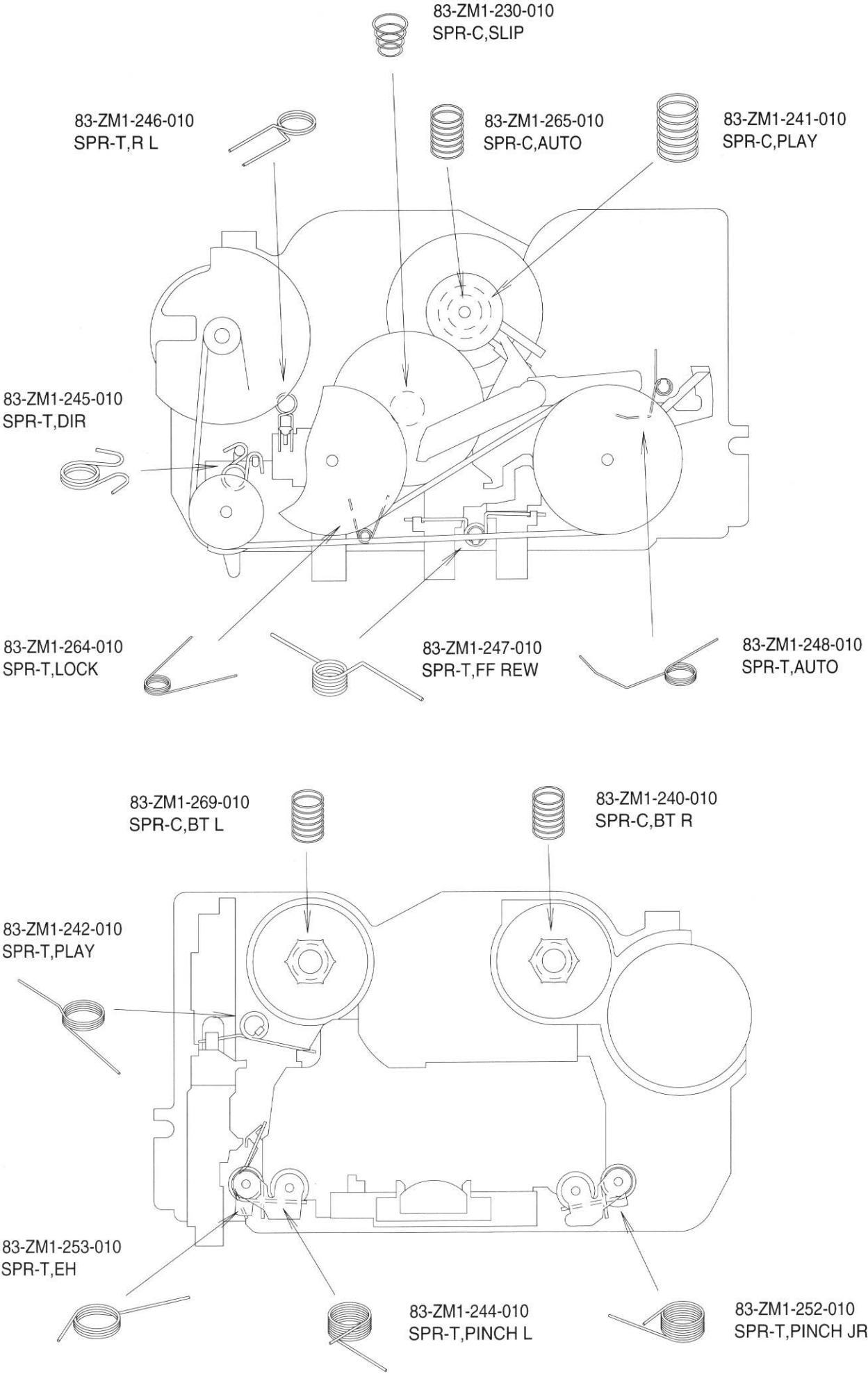
TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".



| REF. NO. | PART NO.       | KANRI NO. | DESCRIPTION       | REF. NO. | PART NO.       | KANRI NO. | DESCRIPTION           |
|----------|----------------|-----------|-------------------|----------|----------------|-----------|-----------------------|
| 1        | 83-ZM1-201-919 |           | CHAS, MAIN        | 36       | 83-ZM1-246-119 |           | SPR-T, R L            |
| 2        | 83-ZM1-272-11K |           | LVR ASSY, EH      | 37       | 83-ZM1-261-010 |           | LVR, CUE REV          |
| 3        | 83-ZM1-253-010 |           | SPR-T, EH         | 38       | 83-ZM1-209-219 |           | LVR, BTN STOP         |
| 4        | 83-ZM1-242-010 |           | SPR-T, PLAY       | 39       | 83-ZM1-207-119 |           | LVR, BTN FF           |
| 5        | 83-ZM1-260-110 |           | LVR, REC LOCK     | 40       | 83-ZM1-208-119 |           | LVR, BTN REW          |
| 6        | 83-ZM1-250-010 |           | LVR, REC          | 41       | 83-ZM1-278-010 |           | SHAFT, CAP 2.0SEF     |
| 7        | 83-ZM1-280-010 |           | LVR, BTN REC      | 42       | 83-ZM1-222-310 |           | FLY-WHL, R            |
| 8        | 83-ZM1-206-219 |           | LVR, BTN PLAY     | 43       | 83-ZM1-282-010 |           | SHAFT, CAP 2.0 RR     |
| 9        | 83-ZM1-244-019 |           | SPR-T, PINCH L    | 44       | 83-ZM1-225-310 |           | FLY-WHL, L            |
| 10       | 83-ZM1-220-219 |           | LVR, PINCH L      | 45       | 83-ZM1-288-310 |           | BELT, P               |
| 11       | 83-ZM1-289-010 |           | PINCH ROL ASSY, L | 46       | 83-ZM1-217-219 |           | LVR, PLAY             |
| 12       | 83-ZM1-252-319 |           | SPR-T, PINCH JR   | 47       | 83-ZM1-230-319 |           | SPR-C, SLIP           |
| 13       | 83-ZM1-219-119 |           | LVR, PINCH R      | 48       | 83-ZM1-229-019 |           | GEAR, SLIP            |
| 14       | 86-541-559-010 |           | EH 2              | 49       | 83-ZM1-228-119 |           | FELT                  |
| 15       | 83-ZM1-263-01K |           | GUIDE, TAPE       | 50       | 83-ZM1-227-31K |           | GEAR, AUTO            |
| 16       | 83-ZM1-269-119 |           | SPR-C, BT L       | 51       | 83-ZM1-241-219 |           | SPR-C, PLAY           |
| 17       | 83-ZM1-235-41K |           | GEAR, REEL L      | 52       | 83-ZM1-231-219 |           | GEAR, PLAY            |
| 18       | 83-ZM1-234-41K |           | GEAR, REEL R      | 53       | 83-ZM1-218-219 |           | LVR, SLIP             |
| 19       | 83-ZM1-240-119 |           | SPR-C, BT R       | 54       | 83-ZM1-265-019 |           | SPR-C, AUTO           |
| 20       | 83-ZM1-210-119 |           | BTN DIR           | 55       | 83-ZM1-232-119 |           | GEAR, FR              |
| 21       | 87-045-385-019 |           | MOTOR (BCY3B11)   | 56       | 83-ZM1-273-019 |           | LVR, AUTO 2           |
| 22       | 83-ZM1-247-119 |           | SPR-T, FF REW     | 57       | 83-ZM1-283-010 |           | SHAFT, REC H          |
| 23       | 83-ZM1-266-219 |           | BTN, MODE CHG     | 58       | 83-ZM1-255-010 |           | PINCH ROL ASSY        |
| 24       | 83-ZM1-236-01K |           | PULLEY, BELT      | A        | 87-078-111-019 |           | S-SCRW, V+1.7-6       |
| 25       | 83-ZM1-264-019 |           | SPR-T, LOCK       | B        | 87-078-100-019 |           | S-SCRW, V+1.7-2.5     |
| 26       | 83-ZM1-237-21K |           | PULLEY, MOTOR     | C        | 87-078-132-010 |           | PW, 1.2-3.5-0.25C-CUT |
| 27       | 83-ZM1-233-119 |           | GEAR, R           | D        | 87-078-086-019 |           | SOMA, 1.5-3.5-0.3 SLT |
| 28       | 83-ZM1-267-119 |           | LVR, DEF AUTO     |          |                |           |                       |
| 29       | 83-ZM1-248-019 |           | SPR-T, AUTO       |          |                |           |                       |
| 30       | 83-ZM1-211-110 |           | LINK, AUTO        |          |                |           |                       |
| 31       | 83-ZM1-216-419 |           | LVR, LOCK         |          |                |           |                       |
| 32       | 83-ZM1-214-419 |           | LVR, DIR          |          |                |           |                       |
| 33       | 83-ZM1-245-219 |           | SPR-T, DIR        |          |                |           |                       |
| 34       | 83-ZM1-268-010 |           | LVR, REC AUTO     |          |                |           |                       |
| 35       | 83-ZM1-215-119 |           | LVR, FR           |          |                |           |                       |

SPRING APPLICATION POSITION



# REFERENCE NAME LIST

## ELECTRICAL SECTION

| DESCRIPTION | REFERENCE NAME     |
|-------------|--------------------|
| ANT         | ANTENNAS           |
| C-          | CHIP               |
| C-CAP       | CAP, CHIP          |
| C-CAP TN    | CAP, CHIP TANTALUM |
| C-COIL      | COIL, CHIP         |
| C-DI        | DIODE, CHIP        |
| C-DIODE     | DIODE, CHIP        |
| C-FET       | FET, CHIP          |
| C-FOTR      | FILTER, CHIP       |
| C-JACK      | JACK, CHIP         |
| C-LED       | LED, CHIP          |
| C-RES       | RES, CHIP          |
| C-SFR       | SFR, CHIP          |
| C-SLIDE SW  | SLIDE SWITCH, CHIP |
| C-SW        | SWITCH, CHIP       |
| C-TR        | TRANSISTOR, CHIP   |
| C-VR        | VOLUME, CHIP       |
| C-ZENER     | ZENER, CHIP        |
| CAP, CER    | CAP, CERA-SOL      |
| CAP, E      | CAP, ELECT         |
| CAP, M/F    | CAP, FILM          |
| CAP, TC     | CAP, CERA-SOL      |
| CAP, TC-U   | CAP, CERA-SOL SS   |
| CAP, TN     | CAP, TANTALUM      |
| CERA FIL    | FILTER, CERAMIC    |
| CF          | FILTER, CERAMIC    |
| DL          | DELAY LINE         |
| E/CAP       | CAP, ELECT         |
| FILT        | FILTER             |
| FLTR        | FILTER             |
| FUSE RES    | RES, FUSE          |
| MOT         | MOTOR              |
| P-DIODE     | PHOTO DIODE        |
| P-SNSR      | PHOTO SENSER       |
| P-TR        | PHOTO TRANSISTOR   |
| POLY VARI   | VARIABLE CAPACITOR |
| PPCAP       | CAP, PP            |
| PT          | POWER TRANSFORMER  |
| PTR, RES    | PTR, MELF          |
| RC          | REMOTE CONTROLLER  |
| RES NF      | RES, NON-FLAMMABLE |
| RESO        | RESONATOR          |
| SHLD        | SHIELD             |
| SOL         | SOLENOID           |
| SPKR        | SPEAKER            |
| SW, LVR     | SWITCH, LEVER      |
| SW, RTRY    | SWITCH, ROTARY     |
| SW, SL      | SWITCH, SLIDE      |
| TC CAP      | CAP, CERA-SOL      |
| THMS        | THERMISTOR         |
| TR          | TRANSISTOR         |
| TRIMER      | CAP, TRIMMER       |
| TUN-CAP     | VARIABLE CAPACITOR |
| VIB, CER    | RESONATOR, CERAMIC |
| VIB, XTAL   | RESONATOR, CRYSTAL |
| VR          | VOLUME             |
| ZENER       | DIODE, ZENER       |

## MECHANICAL SECTION

| DESCRIPTION    | REFERENCE NAME      |
|----------------|---------------------|
| ADHESHIVE      | SHEET ADHESHIVE     |
| AZ             | AZIMUTH             |
| BAR-ANT        | BAR-ANTENNA         |
| BAT            | BATTERY             |
| BATT           | BATTERY             |
| BRG            | BEARING             |
| BTN            | BUTTON              |
| CAB            | CABINET             |
| CASS           | CASSETTE            |
| CHAS           | CHASSIS             |
| CLR            | COLLAR              |
| CONT           | CONTROL             |
| CRSR           | CURSOR              |
| CU             | CUSHION             |
| CUSH           | CUSHION             |
| DIR            | DIRECTION           |
| DUBB           | DUBBING             |
| FL             | FRONT LOADING       |
| FLY-WHL        | FLYWHEEL            |
| FR             | FRONT               |
| FUN            | FUNCTION            |
| G-CU           | G-CUSHION           |
| HDL            | HANDOL              |
| HIMERON        | CLOTH               |
| HINGE, BAT     | HINGE, BATTERY      |
| HLDR           | HOLDER              |
| HT-SINK        | HEAT SINK           |
| IB             | INSTRUCTION BOOKLET |
| IDLE           | IDLER               |
| IND, L-R       | INDICATOR, L-R      |
| KEY, CONT      | KEY, CONTROL        |
| KEY, PRGM      | KEY, PROGRAM        |
| KNOB, SL       | KNOB, SLIDE         |
| LBL            | LABEL               |
| LID, BATT      | LID, BATTERY        |
| LID, CASS      | LID, CASSETTE       |
| LVR            | LEVER               |
| P-SP           | P-SPRING            |
| PANEL, CONT    | PANEL, CONTROL      |
| PANEL, FR      | PANEL, FRONT        |
| PRGM           | PROGRAM             |
| PULLY, LOAD MO | PULLY, LOAD MOTOR   |
| RBN            | RIBBON              |
| S-             | SPECIAL             |
| SEG            | SEGMENT             |
| SH             | SHEET               |
| SHLD-SH        | SHIELD-SHEET        |
| SL             | SLIDE               |
| SP             | SPRING              |
| SP-SCREW       | SPECIAL-SCREW       |
| SPACER, BAT    | SPACER, BATTERY     |
| SPR            | SPRING              |
| SPR-P          | P-SPRING            |
| SPR-PC-PUSH    | T-SPRING, C-PUSH    |
| T-SP           | T-SPRING            |
| TERM           | TERMINAL            |
| TRIG           | TRIGGER             |
| TUN            | TUNING              |
| VOL            | VOLUME              |
| W              | WASHER              |
| WHL            | WHEEL               |
| WORM-WHL       | WORM-WHEEL          |

| サービス技術ニュース |      |
|------------|------|
| 番号         | 連絡内容 |
| G- -       |      |
| G- -       |      |
| G- -       |      |

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